

L Number	Hits	Search Text	DB	Time stamp
1	7	benzoin with ((process processing) near3 aid)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:53
2	445217	epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:36
3	165	benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:12
4	105	(epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:53
5	1	"6344155" and ((powder powdered) with (coating composition))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:56
6	75	((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))) and ((powder powdered) with (coating composition))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:18
7	30	((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))) not (((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))) and ((powder powdered) with (coating composition)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:58
8	1	"6344155" and (((process processing) near3 aid) pinhole (pin adj hole) air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:01
9	2	4367318.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:01
11	25	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:37
10	6	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:09

12	19	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox))) not (((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and benzoin)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:11
13	13	"4367318"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:11
14	0	"4367318" and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:12
15	5	"4367318" and (pinhole (pin adj hole) air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:53
16	23163	((hindered hinder) with (phenol phenolic)) irganox lowinox	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:35
17	0	"4367318" and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:17
18	61	((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))) and ((powder powdered) with (coating composition) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:19
19	61	(benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and ((powder powdered) with (coating composition) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:23
20	9	(benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and ((powder powdered) with (coating composition) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:24
21	9	(benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and ((powder powdered) with (coating composition) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:25
22	9	(benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and (((powder powdered) with (coating composition)) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:25
23	10	(benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and ((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:27

24	18047	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:28
26	9	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:29
27	316	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:29
25	62	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:30
28	17	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (benzoin with (((process processing) near3 aid) pinhole (pin adj hole) air)) and antioxidant	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:32
29	154	(((hindered hinder) with (phenol phenolic)) irganox lowinox) same (flow with (modify modifier modifying control controlling))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:37
30	49	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) same (flow with (modify modifier modifying control controlling)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:54
31	57	(((hindered hinder) with (phenol phenolic)) irganox lowinox) with (flow with (modify modifier modifying control controlling))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:37
32	7	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) with (flow with (modify modifier modifying control controlling)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:40
33	9	(epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) and ((powder powdered powdery) with (paint coating composition)) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) with (flow with (modify modifier modifying control controlling)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:40
34	0	"4367318" and antioxidant	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:43
35	2	jp-2000273282-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:43
36	430	benzoin same (pinhole (pin adj hole) air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:01

37	93	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (benzoin same (pinhole (pin adj hole) air))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:01
38	7	benzoin same (pinhole (pin adj hole)) same air	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:01
39	7	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (benzoin same (pinhole (pin adj hole)) same air)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:03
40	105	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (pinhole (pin adj hole)) and antioxidant	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:03
41	15	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (pinhole (pin adj hole)) and (antioxidant same (((hindered hinder) with (phenol phenolic)) irganox lowinox))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:14
42	0	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (pinhole (pin adj hole)) and (antioxidant same (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:14
43	8	((powder powdered powdery) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) and ((powder powdered powdery) with (paint coating composition)) and (pinhole (pin adj hole)) and (antioxidant same (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:54
44	0	"4367318" and (oxidation rust antioxidant oxidize oxidate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:29
45	3	"6344155"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:29
46	0	"6344155" and (pinhole (pin adj hole))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:29
47	23163	((hindered hinder) with (phenol phenolic)) irganox lowinox	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:35
48	21255	(epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid crystalline)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:53
49	11242	((resole resol) with (phenol phenolic \$10phenol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:40

50	16	(((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid crystalline)) and (((resole resol) with (phenol phenolic \$10phenol)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:53
51	39576	(epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:53
52	47	(((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)) and (((resole resol) with (phenol phenolic \$10phenol)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:53
53	249277	((powder powdered powdery) with (paint coating composition))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 15:55
54	12	(((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)) and (((resole resol) with (phenol phenolic \$10phenol)))) and (((powder powdered powdery) with (paint coating composition)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:42
55	14	feely.xa. and winding	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:43
56	848	310/179.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:44
57	7340	523/400.ccls. 523/440.ccls. 525/523.ccls. 525/534.ccls. 427/58.ccls. 427/104.ccls. 427/116.ccls. 427/117.ccls. 427/386.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:49
58	4	(((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (solid crystalline)) and (((resole resol) with (phenol phenolic \$10phenol)))) and (523/400.ccls. 523/440.ccls. 525/523.ccls. 525/534.ccls. 427/58.ccls. 427/104.ccls. 427/116.ccls. 427/117.ccls. 427/386.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:50
59	7	(((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)) and (((resole resol) with (phenol phenolic \$10phenol)))) and (523/400.ccls. 523/440.ccls. 525/523.ccls. 525/534.ccls. 427/58.ccls. 427/104.ccls. 427/116.ccls. 427/117.ccls. 427/386.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 16:50
60	11	guilbert-curtis.in. guilbert-curtis-\$.in. guilbert-curtis-r.in. curtis-guilbert.in. curtis-guilbert-\$.in. curtis-guilbert-r.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 17:07
61	1	hanssen-neil.in. hanssen-neil-\$.in. hanssen-neil-l.in. neil-hanssen.in. neil-hanssen-\$.in. neil-hanssen-l.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 17:08

62	11	(guilbert-curtis.in. guilbert-curtis-\$in. guilbert-curtis-r.in. curtis-guilbert.in. curtis-guilbert-\$in. curtis-guilbert-r.in.) (hanssen-neil.in. hanssen-neil-\$in. hanssen-neil-l.in. neil-hanssen.in. neil-hanssen-\$in. neil-hanssen-l.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 17:08
63	7	((((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)) and (((resole resol) with (phenol phenolic \$10phenol)))) or (((powder powdered powdery) with (paint coating composition)))) and ((guilbert-curtis.in. guilbert-curtis-\$in. guilbert-curtis-r.in. curtis-guilbert.in. curtis-guilbert-\$in. curtis-guilbert-r.in.) (hanssen-neil.in. hanssen-neil-\$in. hanssen-neil-l.in. neil-hanssen.in. neil-hanssen-\$in. neil-hanssen-l.in.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 17:10
64	2	((((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$) with (solid crystalline)) and (((resole resol) with (phenol phenolic \$10phenol)))) or (((hindered hinder) with (phenol phenolic)) irganox lowinox) and ((epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$) with (biphenyl bisphenol stilbene)) and (((resole resol) with (phenol phenolic \$10phenol)))) and ((guilbert-curtis.in. guilbert-curtis-\$in. guilbert-curtis-r.in. curtis-guilbert.in. curtis-guilbert-\$in. curtis-guilbert-r.in.) (hanssen-neil.in. hanssen-neil-\$in. hanssen-neil-l.in. neil-hanssen.in. neil-hanssen-\$in. neil-hanssen-l.in.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 17:10
-	1053	(epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:50
-	2	oxirane with (phenylenebis\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:18
-	1055	((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:20
-	33595	(powder powdered) same (epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:17
-	171	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and ((powder powdered) same (epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:22
-	3	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and ((powder powdered) same (epox\$5 diepox\$5 polypox\$5 diglycidyl\$ polyglycidyl\$))) and resole	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:34

-	23163	((hindered hinder) with (phenol phenolic)) irganox lowinox	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:16
-	79	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:35
-	51191	((phenol phenolic butylphenol) with formaldehyde) ((resole resol) with (phenol phenolic))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:04
-	7	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and (((phenol phenolic butylphenol) with formaldehyde) ((resole resol) with (phenol phenolic)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 10:37
-	11201	(((phenol phenolic butylphenol) with formaldehyde) same (resole resol)) ((resole resol) with (phenol phenolic))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:05
-	1	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol) with formaldehyde) same (resole resol)) ((resole resol) with (phenol phenolic))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:05
-	18154	(((phenol phenolic butylphenol) with formaldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:07
-	1	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol) with formaldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:06

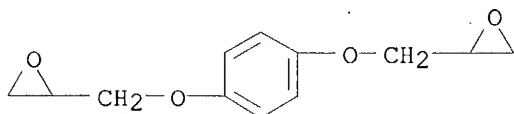
-	0	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol) with formaldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) and (powder powdered)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:10
-	19780	((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:52
-	0	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) and (powder powdered)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:19
-	1	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:53
-	15631	(crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:34
-	5108	resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:18
-	20860	((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$)) ((crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) (resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:19

-	39	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$)) ((crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) (resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:19
-	18	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$)) ((crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) (resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) and (powder powdered)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:57
-	21	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$)) ((crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) (resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) not (((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$)) ((crystal crystalline) same (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) (resorcin\$ with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$))) and (((phenol phenolic butylphenol \$10phenol) same formaldehyde same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox) and (powder powdered))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:28
-	492	(crystalline) adj (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:42
-	0	((crystalline) adj (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) with (example example suitable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:43
-	0	((crystalline) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) with (example example suitable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:43

-	0	(crystalline) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) with (example example suitable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:44
-	95	((crystalline) with (epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$)) with (represented example example suitable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:51
-	42100	(epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:52
-	21986	((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:26
-	2	(((epoxypropoxy with benzene) (epoxy with propoxy with benzene) epoxypropoxybenzene (glycidylloxy with benzene) glycidylloxybenzene (dihydroquinone with diglycidyl with ether) (dihydroquinone with diglycidylether) (hydroquinone with epoxypropyl with ether) (hydroquinone with epoxypropylether) (hydroquinone with diglycidyl with ether) (hydroquinone with diglycidylether)) (oxirane with (phenylenebis\$))) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 11:56
-	62	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and (powder powdered)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:52
-	29	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 13:55
-	8	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:14
-	21	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition))) not (((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:15

-	79	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) not (((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:25
-	11242	(resole resol) with (phenol phenolic \$10phenol)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:29
-	39	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) not (((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((powder powdered) with (coating composition))) and ((resole resol) with (phenol phenolic \$10phenol))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:41
-	2	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and ((electric electrical) with winding)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:41
-	108	((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 12:43
-	17	(((epox\$5 diepox\$5 polyepox\$5 diglycidyl\$ polyglycidyl\$) same (biphenyl bisphenol stilbene)) and (((phenol phenolic butylphenol \$10phenol) same (formaldehyde aldehyde) same (resole resol alkaline basic base)) ((resole resol) with (phenol phenolic \$10phenol))) and (((hindered hinder) with (phenol phenolic)) irganox lowinox)) and benzoin	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/26 14:03

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 2425-01-6 REGISTRY
 CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzene, p-bis(2,3-epoxypropoxy)- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1,4-Bis(2,3-epoxypropoxy)benzene
 CN 1,4-Di(glycidyloxy)benzene
 CN 1,4-Hydroquinone diglycidyl ether
 CN Dihydroquinone diglycidyl ether
 CN Hydroquinone bis(2,3-epoxypropyl) ether
 CN Hydroquinone diglycidyl ether
 CN NSC 6708
 CN p-Dihydroquinone diglycidyl ether
 FS 3D CONCORD
 MF C12 H14 O4
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,
 CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Conference; Journal; Patent; Report
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
 NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP
 (Preparation); PRP (Properties); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

163 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 163 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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NEWS	3	May 12 EXTEND option available in structure searching
NEWS	4	May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CAPLUS
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NEWS	10	Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02 CAPLUS and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02 STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.21

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STRUCTURE FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

DICTIONARY FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

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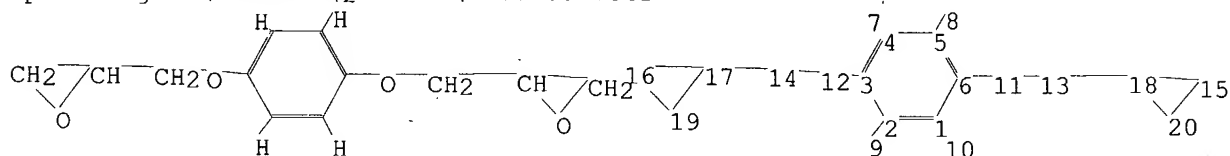
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chain nodes :

7 8 9 10 11 12 13 14

ring nodes :

1 2 3 4 5 6 15 16 17 18 19 20

chain bonds :

1-10 2-9 3-12 4-7 5-8 6-11 11-13 12-14 13-18 14-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 15-18 15-20 16-17 16-19 17-19 18-20

exact/norm bonds :

3-12 6-11 15-18 15-20 16-17 16-19 17-19 18-20

exact bonds :

1-10 2-9 4-7 5-8 11-13 12-14 13-18 14-17

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom

19:Atom 20:Atom

L1

STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 10:01:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 556 TO ITERATE

100.0% PROCESSED 556 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

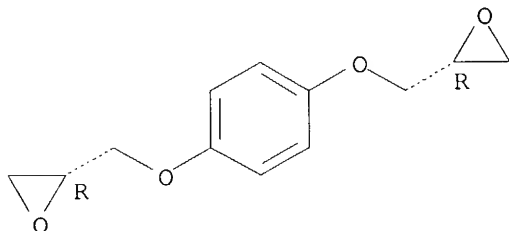
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9706 TO 12534
PROJECTED ANSWERS: 22 TO 418

L2 11 SEA SSS SAM L1

=> d 12 1

L2 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2004 ACS on STN
RN 641613-65-2 REGISTRY
CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis-, (2R,2'R)- (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C12 H14 O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA 'Caplus document type: Journal
RL.NP Roles from non-patents: RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 12 2

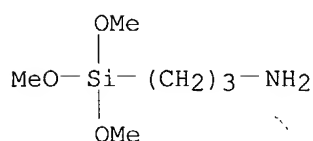
L2 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2004 ACS on STN
RN 164654-45-9 REGISTRY
CN Silicic acid (H4SiO4), tetraethyl ester, polymer with 2,2'-[1,4-phenylenebis(oxymethylene)]bis[oxirane] and 3-(trimethoxysilyl)-1-propanamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Propanamine, 3-(trimethoxysilyl)-, polymer with 2,2'-[1,4-phenylenebis(oxymethylene)]bis[oxirane] and silicic acid (H4SiO4) tetraethyl ester (9CI)
CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis-, polymer with silicic acid (H4SiO4) tetraethyl ester and 3-(trimethoxysilyl)-1-propanamine (9CI)
OTHER NAMES:
CN Aminopropyltrimethoxysilane-hydroquinone diglycidyl ether-tetraethoxysilane copolymer
MF (C12 H14 O4 . C8 H20 O4 Si . C6 H17 N O3 Si)x
CI PMS

PCT Epoxy resin, Polyether, Polyother
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: PREP (Preparation); PRP (Properties); USES (Uses)

CM 1

CRN 13822-56-5

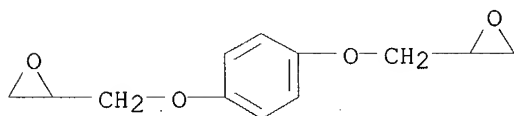
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CM 2

CRN 2425-01-6

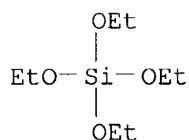
CMF C12 H14 O4



CM 3

CRN 78-10-4

CMF C8 H20 O4 Si



3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

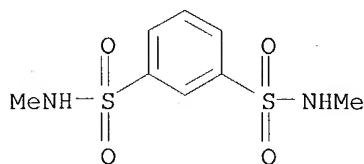
=> d 12 3

L2 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2004 ACS on STN
RN 146089-50-1 REGISTRY
CN 1,3-Benzenedisulfonamide, N,N'-dimethyl-, polymer with
2,2'-[1,4-phenylenebis(oxymethylene)]bis[oxirane] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis-, polymer with
N,N'-dimethyl-1,3-benzenedisulfonamide (9CI)
MF (C12 H14 O4 . C8 H12 N2 O4 S2)x
CI PMS
PCT Epoxy resin, Polyether, Polyother
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

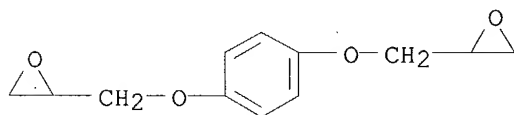
CM 1

CRN 146089-48-7
CMF C8 H12 N2 O4 S2



CM 2

CRN 2425-01-6
CMF C12 H14 O4



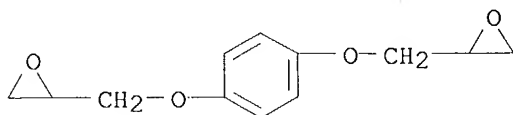
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE).

=> s 2425-01-6/rn
L3 1 2425-01-6/RN

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN **2425-01-6** REGISTRY
CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzene, p-bis(2,3-epoxypropoxy)- (6CI, 7CI, 8CI)
OTHER NAMES:
CN 1,4-Bis(2,3-epoxypropoxy)benzene
CN 1,4-Di(glycidyloxy)benzene
CN 1,4-Hydroquinone diglycidyl ether
CN Dihydroquinone diglycidyl ether
CN Hydroquinone bis(2,3-epoxypropyl) ether
CN Hydroquinone diglycidyl ether
CN NSC 6708
CN p-Dihydroquinone diglycidyl ether
FS 3D CONCORD
MF C12 H14 O4
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC

(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
 NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

163 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 163 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
8.76	8.97

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FILE COVERS 1907 - 26 Aug 2004 VOL 141 ISS 9
 FILE LAST UPDATED: 25 Aug 2004 (20040825/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s full l3
 L4 163 L3

=> s full l3 and powder and resole
 163 L3
 457541 POWDER
 154697 POWDERS
 525921 POWDER
 (POWDER OR POWDERS)
 188928 POWD
 262 POWDS

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189062 POWD
      (POWD OR POWDS)
647000 POWDER
      (POWDER OR POWD)
596 RESOLE
133 RESOLES
648 RESOLE
      (RESOLE OR RESOLES)
L5      0 L3 AND POWDER AND RESOLE

=> s full l3 and powder and hindered
      163 L3
      457541 POWDER
      154697 POWDERS
      525921 POWDER
            (POWDER OR POWDERS)
      188928 POWD
            262 POWDS
      189062 POWD
            (POWD OR POWDS)
      647000 POWDER
            (POWDER OR POWD)
      34043 HINDERED
L6      0 L3 AND POWDER AND HINDERED

=> s full l3 and powder
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      457541 POWDER
      154697 POWDERS
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            (POWDER OR POWDERS)
      188928 POWD
            262 POWDS
      189062 POWD
            (POWD OR POWDS)
      647000 POWDER
            (POWDER OR POWD)
L7      9 L3 AND POWDER

=> s full l3 and (powder or powdered)
      163 L3
      457541 POWDER
      154697 POWDERS
      525921 POWDER
            (POWDER OR POWDERS)
      188928 POWD
            262 POWDS
      189062 POWD
            (POWD OR POWDS)
      647000 POWDER
            (POWDER OR POWD)
      25254 POWDERED
      188928 POWD
            262 POWDS
      189062 POWD
            (POWD OR POWDS)
      202532 POWDERED
            (POWDERED OR POWD)
L8      9 L3 AND (POWDER OR POWDERED)

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L8      ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
AB      The clear thermoset coating cured at <350° F without bubble

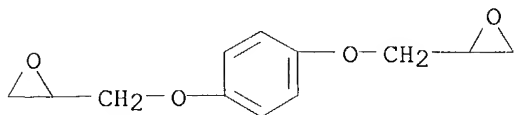
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entrapment is prepared from the blends containing: (a) non-crystalline epoxy resin,
especially as bisphenol-A epoxy; (b) 5-15% of crystalline epoxy resin; (c) curing
agent, especially dicyanodiamide; (d) cure catalyst, typically 2-Me imidazole;
and (e) minor conventional additives. The mixts. show good stability in
storage, and can be applied by electrostatic-spray coating. The clear
coating 2.5-3.0 mils thick is suitable for decorative hard finish on
polished brass articles, or can be pigmented for similar applications.

ACCESSION NUMBER: 2000:769099 CAPLUS
DOCUMENT NUMBER: 133:312450
TITLE: **Powder** blends with amorphous and crystalline
epoxy resins suitable for thermoset coating on
polished brass articles
INVENTOR(S): Ruth, William G.; Greth, Stacy L.; Seelig, Carryll A.;
Schreffler, Dean A.
PATENT ASSIGNEE(S): Morton International Inc., USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6140430	A	20001031	US 1999-307541	19990507
CA 2296633	AA	20001107	CA 2000-2296633	20000118
CA 2296633	C	20031216		
EP 1050564	A2	20001108	EP 2000-301694	20000302
EP 1050564	A3	20001115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6309751	B1	20011030	US 2000-605268	20000628
US 2002019499	A1	20020214	US 2001-928765	20010813
US 6616979	B2	20030909		

PRIORITY APPLN. INFO.: US 1999-307541 A 19990507
IT 2425-01-6, Hydroquinone diglycidyl ether
RL: MOA (Modifier or additive use); USES (Uses)
(resin blend containing; **powder** blends with amorphous and crystalline
epoxy resins for thermoset coating on brass)
RN 2425-01-6 CAPLUS
CN Oxirane, 2,2'-[1,4-phenylenebis(oxyethylene)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

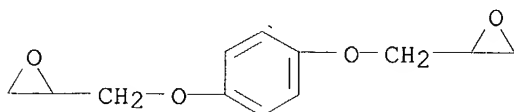
L8 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
AB This invention provides a UV curable **powder** coating composition
comprising a particulate blend of a non-crystalline unsatd. polyester base
resin, a crystalline unsatd. crosslinker resin co-polymerizable with the base
resin, and a photoinitiator, that exhibits reduced or eliminated hazing in
the cured coating formed therefrom upon being cured at low temps. demanded
by certain heat sensitive substrates. This is accomplished by
incorporating in the **powder** composition a recrystn. or haze inhibitor
which is comprised of a crystalline epoxy resin. When this **powder**
blend is melted for curing, the crystalline crosslinker resin visually appears

to sep. and recrystallize out of the molten **powder** less completely than it does in the absence of the recrystn. or haze inhibitor. This prevents a visible haze from developing on the surface of the coating upon curing with UV radiation.

ACCESSION NUMBER: 2000:754509 CAPLUS
DOCUMENT NUMBER: 133:323048
TITLE: Non-hazing UV-curable **powder** coatings containing crystalline resins
INVENTOR(S): Daly, Andrew T.; Muthiah, Jenö; Haley, Richard P.; Decker, Owen H.; Reinheimer, Eugene P.; Snyder, Matthew B.
PATENT ASSIGNEE(S): Morton International Inc., USA
SOURCE: U.S., 9 pp., Cont.-in-part of U.S. 6,011,080. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6136882	A	20001024	US 1999-349074	19990708
US 6011080	A	20000104	US 1998-136184	19980819
EP 980901	A2	20000223	EP 1999-306013	19990729
EP 980901	A3	20000426		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2279164	C	20030121	CA 1999-2279164	19990730
MX 9907354	A	20001031	MX 1999-7354	19990810
NO 9904011	A	20000221	NO 1999-4011	19990819
PRIORITY APPLN. INFO.:			US 1998-136184	A2 19980819
			US 1999-349074	A 19990708

IT **2425-01-6**, Hydroquinone diglycidyl ether
RL: MOA (Modifier or additive use); USES (Uses)
(recrystn. or haze inhibitor; non-hazing UV-curable **powder** coatings containing crystalline resins)
RN **2425-01-6** CAPLUS
CN Oxirane, 2,2'-[1,4-phenylenebis(oxyethylene)]bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

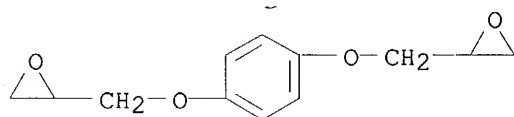
L8 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
AB The title coatings contain triazinethiols, tannic acid or derivs., and resins (e.g. polyesters, polyester-epoxy resins). Thus, a mixture of 21 g **powdered** (dibutylamino)triazinedithiol, 2.52 g **powdered** hydroquinone diglycidyl ether, 300 mL acetone, 3.36 g 50% BuOH solution of CE 800 (polyester), and 260 g 30% polytannic acid (K-polymer L2) gave an anticorrosive coating on Fe-rare earth metal-B alloy magnets.

ACCESSION NUMBER: 1990:425643 CAPLUS
DOCUMENT NUMBER: 113:25643
TITLE: Anticorrosive coatings for rare earth-iron-boron permanent magnets
INVENTOR(S): Kobayashi, Toshihiro; Kuwazawa, Takafumi; Kobayashi, Toshimasa
PATENT ASSIGNEE(S): Sankyo Seiki Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

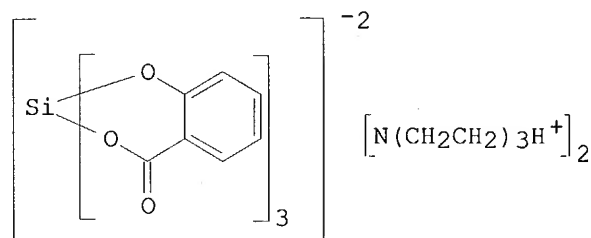
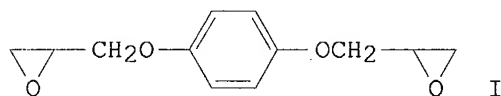
DOCUMENT TYPE: CODEN: JKXXAF
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 Japanese
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02006573	A2	19900110	JP 1988-156639	19880627
WO 9313177	A1	19930708	WO 1989-JP636	19890627
W: US				
US 5096741	A	19920317	US 1990-623460	19901219
PRIORITY APPLN. INFO.:			JP 1988-156639	19880627
			WO 1989-JP636	19890627

IT 2425-01-6
 RL: USES (Uses)
 (in anticorrosive coatings for iron-rare earth-boron alloy magnets)
 RN 2425-01-6 CAPLUS
 CN Oxirane, 2,2'-[1,4-phenylenebis(oxyethylene)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 GI



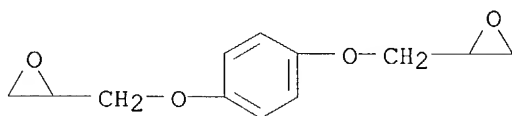
AB Acrylic resin **powder** coating compns. with low temperature curing properties and good storage stability were prepared by mixing a polyepoxy compound and an organosilicon compound with a copolymer of α, β -unsatd. carboxylic acids and ethylenically unsatd. compds. Thus, a monomer mixture of styrene 25, Me methacrylate 35, Bu acrylate 20, acrylic acid 20, and azobisisobutyronitrile 2 parts was copolymd. 5 hr at 110° in PhMe and evaporated to give a copolymer [27306-39-4] (weight average mol. weight 8600, glass transition temperature 74°) in 95% yield. The copolymer 100, an epoxy compound (I) [2425-01-6] 15, a Si compound (II) [60243-16-5] 1, TiO₂ 20, and Modaflow 1 part were melt blended and ground to give a blocking-resistant **powder** coating composition, which was electrostatically coated on a phosphated steel panel and baked 30 min at 150° to give a smooth solvent- and abrasion-resistant coating film with Erichsen value >8 mm.

ACCESSION NUMBER: 1977:91872 CAPLUS
 DOCUMENT NUMBER: 86:91872

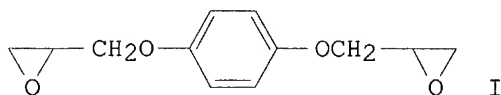
TITLE: Acrylic resin **powder** coating compositions
 INVENTOR(S): Matsumoto, Yoshio; Nakamura, Katsuyuki; Sasaguri, Kiichiro; Matsuo, Shunji; Sato, Mikio; Hayashi, Yoshio; Uda, Bunzo; Mitsui, Ryoichi
 PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51125114	A2	19761101	JP 1974-132054	19741118
PRIORITY APPLN. INFO.: IT 2425-01-6			JP 1974-132054	19741118

RL: MOA (Modifier or additive use); USES (Uses)
 (crosslinking agents, for acrylic coatings in presence of organosilicon compds.)
 RN 2425-01-6 CAPLUS
 CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 GI



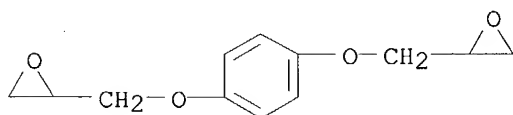
AB Acrylic resin **powder** coating compns. with low temperature curing properties and good storage stability were prepared by mixing a polyepoxy compound and an amine-carboxylic acid salt or a carbamate (prepared from an amine and CO2) with a copolymer of α,β -unsatd. carboxylic acids and ethylenically unsatd. compds. Thus, a monomer mixture of styrene 25, Me methacrylate 35, Bu acrylate 20, acrylic acid 20, and azobisisobutyronitrile 2 parts was copolymd. 5 h at 110° in PhMe and evaporated to give a copolymer [27306-39-4] (glass transition temperature 74°) in 95% yield. The copolymer 100, an epoxy compound (I) [2425-01-6] 15, 1:1 mole ratio diethylenetriamine-isophthalic acid salt [61852-66-2] 1, TiO2 20, and Modaflow 1 part were melt blended and ground to give a blocking-resistant **powder** coating composition, which was electrostatically coated on a phosphated steel panel and baked 30 min at 150° to give a smooth solvent- and abrasion-resistant coating film with Erichsen value >8 mm.

ACCESSION NUMBER: 1977:91871 CAPLUS
 DOCUMENT NUMBER: 86:91871
 TITLE: Acrylic resin **powder** coating compositions
 INVENTOR(S): Matsumoto, Yoshio; Nakamura, Katsuyuki; Sasaguri, Kiichiro; Matsuo, Shunji; Sato, Mikio; Hayashi, Yoshio; Uda, Bunzo
 PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51125117	A2	19761101	JP 1974-132053	19741118
PRIORITY APPLN. INFO.:			JP 1974-132053	19741118

IT 2425-01-6
 RL: MOA (Modifier or additive use); USES (Uses)
 (crosslinking agents, for acrylic coatings in presence of carboxylic acid amine salts or carbamates)
 RN 2425-01-6 CAPLUS
 CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)

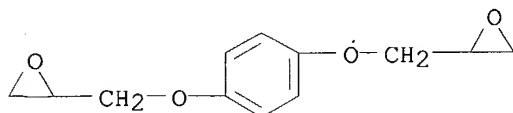


L8 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 AB Dehydrochlorination in the condensation of epichlorohydrin with alcs. and PhNH2, and of chloronitrobenzenes with anilines, was effected by contacting the reactants with **powdered** NaOH-Al2O3 or K2CO3-Al2O3. Thus, 2,4-(O2N)2C6H3NHPH was prepared (98%) by passing an equimolar solution of 2,4-(O2N)2C6H3Cl and PhNH2 in DMF through a chromatog. column containing a 1:1 mixture of K2CO3 and Al2O3. Five epoxides and 14 nitrodiphenylamines were prepared

ACCESSION NUMBER: 1975:443019 CAPLUS
 DOCUMENT NUMBER: 83:43019
 TITLE: Dehydrochlorination reactions
 INVENTOR(S): Bell, John Alexander; Grindlay, John W.; Simkins, Robert J. J.
 PATENT ASSIGNEE(S): United Kingdom Secretary for Defence, UK
 SOURCE: Brit., 6 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1386594	A	19750312	GB 1971-5078	19720215
PRIORITY APPLN. INFO.:			GB 1971-5078	19720215

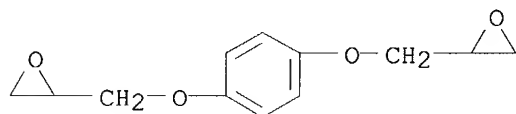
IT 2425-01-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 2425-01-6 CAPLUS
 CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 AB The title composition consists of a glycidyl ether binder, a tetrahydrophthalic anhydride curing agent, a filler, and a pigment. To obtain a **powd** . composition, characterized by moisture resistance, mech. strength, and storage stability, a diglycidyl ether of hydroquinone is used as the binder and methyltetrahydrophthalic anhydride is used as the curing agent in an amount of 167-180 parts by weight per 100 parts of the binder.

ACCESSION NUMBER: 1970:467779 CAPLUS
 DOCUMENT NUMBER: 73:67779
 TITLE: Glycidyl ether composition
 INVENTOR(S): Kolmakov, O. A.; Seryakov, N. N.; Sheveleva, A. F.; Demidova-Shchetinina, R. I.; Nikolaev, V. M.; Baskina, L. Z.
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obratzsy, Tovarnye Znaki 1970, 47(16), 68.
 CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	SU 270161		19700508	SU	19651122
IT	2425-01-6				
	RL: TEM (Technical or engineered material use); USES (Uses) (coatings, moisture-resistant)				
RN	2425-01-6 CAPLUS				
CN	Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis- (9CI) (CA INDEX NAME)				

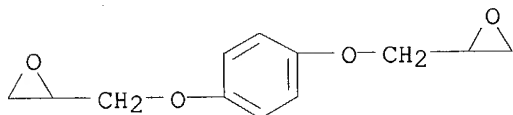


L8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 GI For diagram(s), see printed CA Issue.
 AB Antistatic agents for high-mol.-weight polymers are prepared by reaction of 2 moles of a primary and (or) secondary amine, R1R2NH(R1 = C4-22 aliphatic hydrocarbon group and R2 = H or C1-12 aliphatic hydrocarbon group), with 1 mole of dioxirane (I or II, where R = H or Me and n = 0-3) at 80-240° under atmospheric pressure for 1-4 hrs. The agents improve the sliding of the polymers, act as antiblocking agents, reduce the electrostatic charge, have very good permanent efficiency, support high temps. without discoloring or exuding, do not react with other additives, are not corrosive, and are highly compatible. Thus, 1% of the reaction product of 1,4-bis(2,3-epoxypropoxy)benzene and stearylamine in solution was mixed with **powdered** low-pressure polyethylene, the solvent evaporated at 50-100° and 100 mm., the mixture extruded as a band, the band cut into small pieces, and the granules injection molded at 220-90° into 1-mm.-thick plates having a maximum electrostatic charge of -74 volts and an electrostatic charge of -150 after wiping with a damp cloth and drying for 5 hrs. at ambient temperature A sample which was lightly rubbed with a woolen cloth 10 times and then held 0.5 cm. from a layer of C black showed no attraction. Similar results were obtained with polypropylene, polystyrene, and poly(ethylene glycol terephthalate). Other amines used were N-methylaurylamine, a heavy tallow amine, Bu2NH, N-methylstearylamine, octylamine, and N-ethylstearylamine. Other dioxiranes were 1,3-bis(2,3-epoxypropoxy)benzene, 2,2-bis[p-(2,3-

epoxypropoxy)phenyl]propane, and the epoxy resin condensate of
2,2-bis(4-hydroxyphenyl)propane with epichlorohydrin.

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DOCUMENT NUMBER: 71:31057
TITLE: Antistatic agents for high-molecular-weight polymers
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
SOURCE: Fr., 5 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

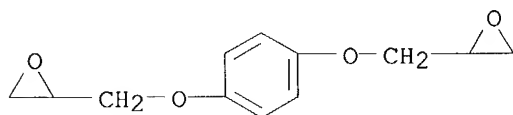
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1524755		19680510		
DE 1694119			DE	
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PRIORITY APPLN. INFO.:			DE	19660528
IT 2425-01-6				
RL: USES (Uses)				
(reaction products with amines, as antistatic agents for polymers)				
RN 2425-01-6 CAPLUS				
CN Oxirane, 2,2'-[1,4-phenylenebis(oxymethylene)]bis-			(9CI)	(CA INDEX NAME)



L8 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
AB A modified technique for rapid evaluation of the effectiveness of poly(vinyl chloride) (I) stabilizers was studied. Thus, **powdered** I, containing 0.01 mole/kg. photostabilizer, was placed in small (150 + 16 mm.) quartz glass boats in a quartz tube, which was sealed in a special frame. I was irradiated with uv light for 15 min. at <35°, and the HCl formed was displaced by carefully purified air (CO2 removed). This allowed HCl to be absorbed by NaOH or AgNO3 solns., and to be determined accordingly. The technique was modified to determine the time corresponding to evolution of certain amts. of HCl. The alkalimetric procedure involved placing 2.5 ml. 0.01N NaOH, 2-3 drops Phenol Red, and H2O in test tubes (total volume 25 ml.). Air containing HCl was neutralized in the alkaline solution, and a graph showing dehydrochlorination of I was plotted from the amount of HCl evolved vs. time. The argentometric procedure involved a potentiometric determination of Cl- using Hg and Ag electrodes. Effectiveness of the stabilizers used increased with epoxy group contents; i.e., hydroquinone diglycidyl ether was more effective than the glycidyl ethers of 1- or 2-naphthol, which were equivalent to each other. The following order of increasing stabilizing efficiency was also found: Ph salicylate < 2-hydroxy-4-octyloxybenzophenone < 2-(2-hydroxy-5-methylphenyl)benzotriazole.

ACCESSION NUMBER: 1969:68962 CAPLUS
DOCUMENT NUMBER: 70:68962
TITLE: Evaluating the effectiveness of poly(vinyl chloride) stabilizers
AUTHOR(S): Temchin, Yu. I.; Burmistrov, E. F.; Kislyakova, L. I.; Ikonnikova, M. P.
CORPORATE SOURCE: USSR
SOURCE: Plasticheskie Massy (1968), (12), 60-2

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DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 2425-01-6
RL: USES (Uses)
(as ultraviolet light stabilizer, for chloroethylene polymers)
RN 2425-01-6 CAPLUS
CN Oxirane, 2,2'-[1,4-phenylenebis(oxyethylene)]bis- (9CI) (CA INDEX NAME)



=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	57.34	66.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-6.30	-6.30

STN INTERNATIONAL LOGOFF AT 10:06:32 ON 26 AUG 2004